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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 3462.1014-000 |
| | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/533015 |
| INTERNATIONAL APPLICATION NO. PCT/JP2003/013768 | INTERNATIONAL FILING DATE 28 October 2003 (28.10.2003) | EARLIEST PRIORITY DATE CLAIMED 28 October 2002 (28.10.2002) |
| TITLE OF INVENTION METHOD OF CONTROLLING MIGRATION OF SUBSTANCE | | |
| APPLICANT(S) FOR DO/EO/US Kazuyoshi Yano, Isao Karube, Atsunori Hiratsuka and Shuo-Wen Tsai | | |
| <p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). <p>Items 11 to 20 below concern document(s) or information included:</p> <ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A <u>separate</u> cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18. <input checked="" type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: International Search Report (PCT/ISA/210); Notification of Receipt of Demand for IPE (PCT/IPEA/402); Information Concerning Elected Offices Notified of their Election (PCT/IB/332); Written Opinion (PCT/IPEA/408); and Notification of Transmittal of International Preliminary Examination Report (IPER) (PCT/IPEA/416) and IPER (PCT/IPEA/409). | | |

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| 10/533015 | PCT/JP2003/013768 | 3462.1014-000 | | | |
| The following fees have been submitted | | CALCULATIONS PTO USE ONLY | | | |
| 21. [X] Basic national fee | | \$300.00 \$300 | | | |
| 22. [X] Examination fee If International preliminary examination report prepared by USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) | | \$100.00 | | | |
| All other situations | | \$200.00 | | | |
| 23. [X] Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority | | \$100.00 | | | |
| International Search Report prepared and provided to the Office | | \$400.00 | | | |
| All other situations | | \$500.00 | | | |
| TOTAL OF 21, 22 and 23 = | | \$900.00 | | | |
| [] Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | |
| - 100 = | /50 = | | x \$250.00 | \$0.00 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). | | \$ | | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total claims | 10 - 20 = | 0 | x \$50.00 | \$0.00 | |
| Independent claims | 4 - 3 = | 1 | x \$200.00 | \$200.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360.00 | \$ | |
| TOTAL OF ABOVE CALCULATIONS = | | \$1,100.00 | | | |
| [] Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | \$ | | | |
| | | SUBTOTAL = | \$1,100.00 | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | + | \$ | | |
| | | TOTAL NATIONAL FEE = | \$1,100.00 | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | + | \$ | | |
| | | TOTAL FEES ENCLOSED = | \$1,100.00 | | |
| | | Amount to be refunded: | \$ | | |
| | | Amount to be charged: | \$ | | |
| a. [X] A check in the amount of \$1,100 to cover the above fees is enclosed. | | | | | |
| b. [] Please charge my Deposit Account No. 08-0380 in the amount of \$[] to cover the above fees. A duplicate copy of this sheet is enclosed. | | | | | |
| c. [X] The Commissioner is hereby authorized to charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A duplicate copy of this sheet is enclosed. | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | | |
| SEND ALL CORRESPONDENCE TO: | |  SIGNATURE | | | |
| Customer No. 021005 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 Virginia Road P.O. Box 9133 Concord, MA 01742-9133 | | David E. Brook NAME | | | |
| | | 22,592 REGISTRATION NUMBER | | | |

10/533015
PATENT APPLICATION
Docket No.:3462.1014-000
JC12 Rec'd PCT/PTC 28 APR 2005

IN THE UNITED STATES RECEIVING OFFICE (RO/US)
Designated/Elected Office (DO/EO/US)

U.S. National Stage of

International Application No.: PCT/JP2003/013768

International Filing Date: October 28, 2003

Earliest Priority Date Claimed: October 28, 2002

Applicants: Kazuyoshi Yano, Isao Karube, Atsunori Hiratsuka and
Shuo-Wen Tsai

Title: "METHOD OF CONTROLLING MIGRATION OF
SUBSTANCE"

Attorney's Docket No.: 3462.1014-000

Date: 28 April 2005

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